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TITLE:

Method for recovery of waste cobalt-containing catalyst

for Fischer-Tropsch synthesis

INVENTOR: GAO, H; LI, Y; XIANG, H

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PRIORITY-DATA: 2002CN-0130057 (August 19, 2002)

PATENT-FAMILY:

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APPLICATION-DATA:

PUB-NO APPL-DESCRIPTOR APPL-NO APPL-DATE

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INT-CL (IPC): B01J023/75, C01G051/00

ABSTRACTED-PUB-NO: CN 1401427A

BASIC-ABSTRACT:

NOVELTY - Recovering the used Co-containing catalyst used in Fischer-Tropsch synthesis includes reducing at 800-1200 deg.C and 0.1-2 MPa in H2/N2 mixed gas flow at 1000-5000 /h for 4-16 hr, adding diluted nitric acid, dissolving, filtering, adding solution of sodium hydroxide to obtain precipitate of cobalt hydroxide.

DETAILED DESCRIPTION - Recovering the used Co-containing catalyst used in Fischer-Tropsch synthesis includes reducing at 800-1200 deg.C and 0.1-2 MPa in H2/N2 mixed gas flow at 1000-5000 /h for 4-16 hr,

adding diluted nitric acid, dissolving, filtering, adding solution of sodium hydroxide to obtain precipitate of cobalt hydroxide, filtering, adding diluted nitric acid, dissolving and evaporation crystallizing to obtain Co(NO3)2.6H2O.

ADVANTAGE - Its advantages are high Co recovery rate (more than 91%), high purity (more than 94%) and low cost.

CHOSEN-

Dwg.0/0

DRAWING:

TITLE-TERMS: METHOD RECOVER WASTE COBALT CONTAIN CATALYST FISCHER

TROPSCH SYNTHESIS

DERWENT-CLASS: E31 J04

CPI-CODES: E11-Q01; E35-V; J04-E04;

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